

ROSE-IGCC INTEGRATION

Abstract

Residual oil supercritical extraction (ROSE) 10 and integrated gasification combined-cycle (IGCC) power systems 70, 114 are cooperatively integrated. High-level heat from the IGCC is used via a heat transfer fluid 84 for high level process heating requirements in the ROSE unit. This can eliminate the fired heater normally required in the ROSE unit, and reduces the size of the gasifier 62 waste heat boiler 72 and/or the high-pressure steam coil 134 and steam turbine generator 144 in the IGCC.